



App No.: 09/083,793

Docket No.: 1173-1035PUS2

Inventor: Brian R. MURPHY et al.

Title: PRODUCTION OF ATTENUATED PARAINFLUENZA VIRUS

VACCINES FROM CLONED NUCLEOTIDE SEQUENCES

REPLACEMENT SHEET

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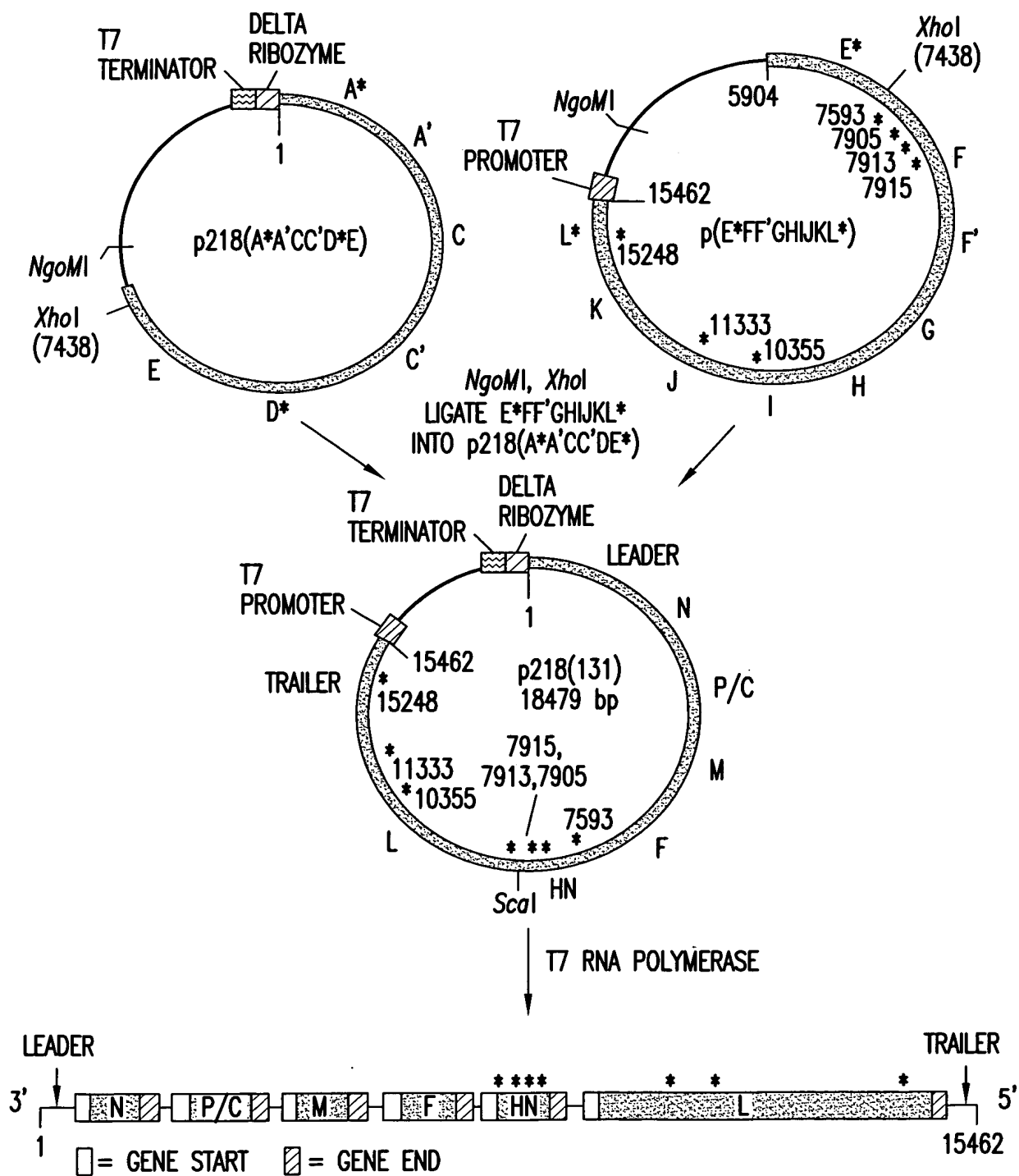
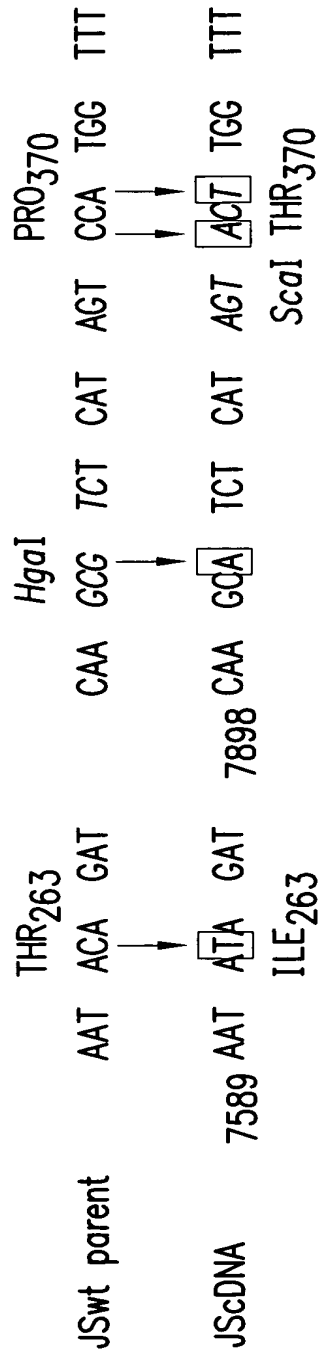


FIG.1



1) Introduced and Incidental Mutations in HN gene of JS cDNA [p218(131)]



2) Incidental mutations in the L gene of JScDNA [p218(131)]

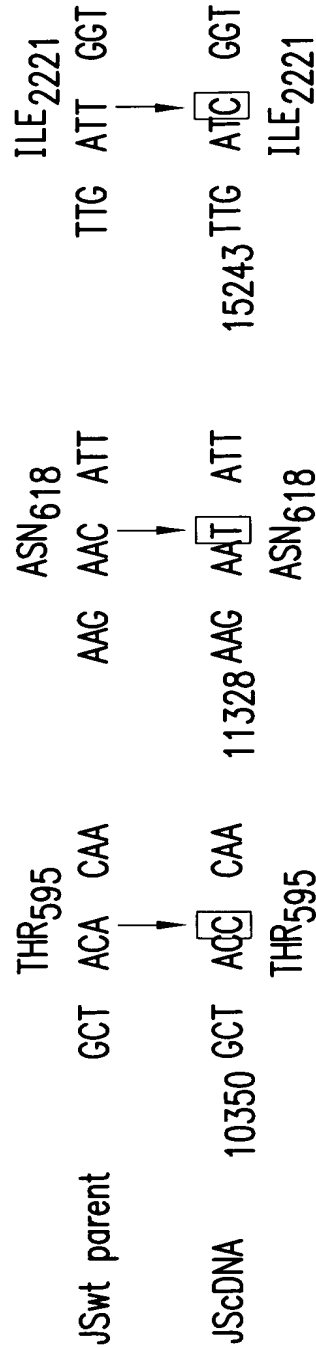


FIG.2



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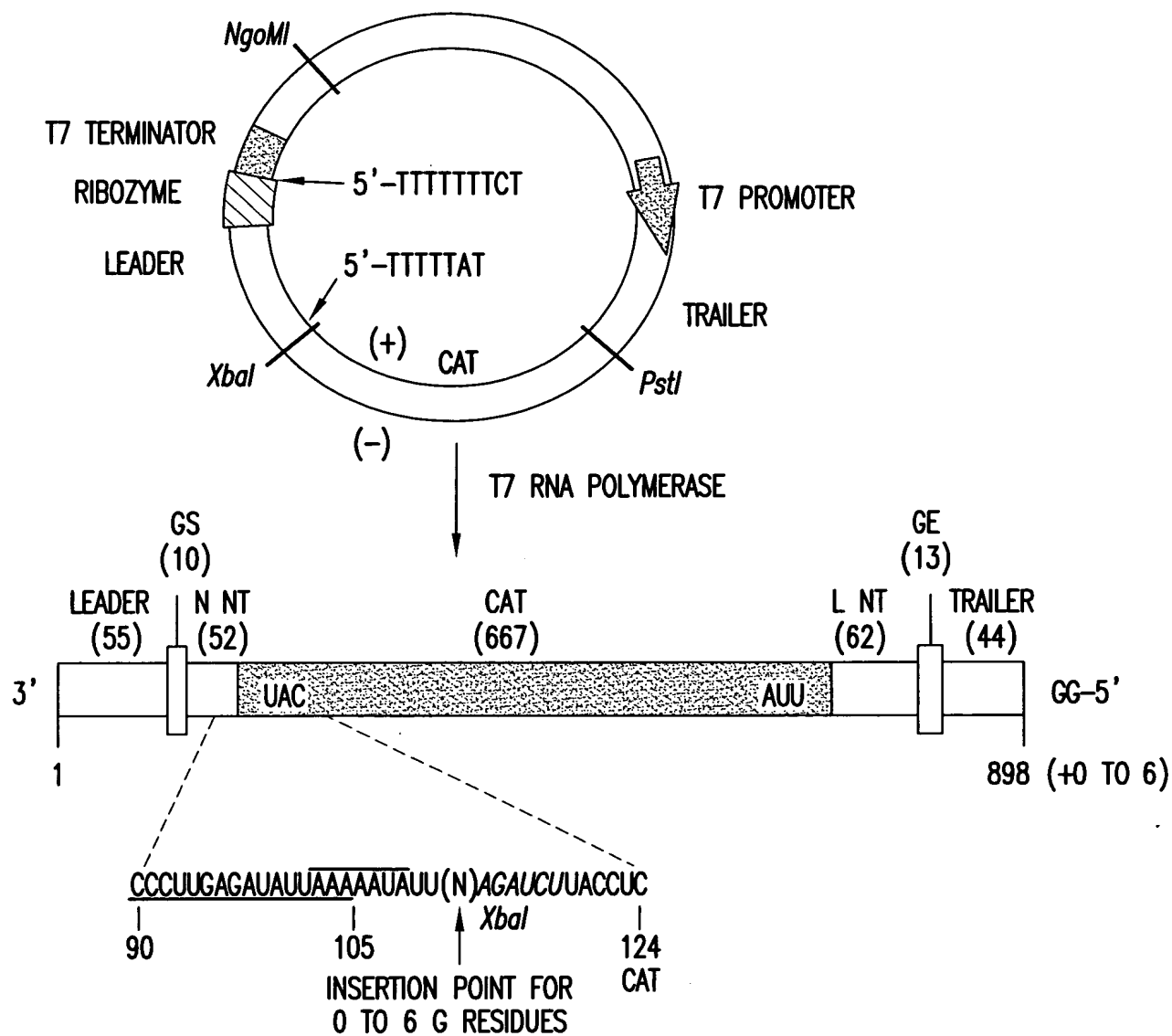


FIG.3



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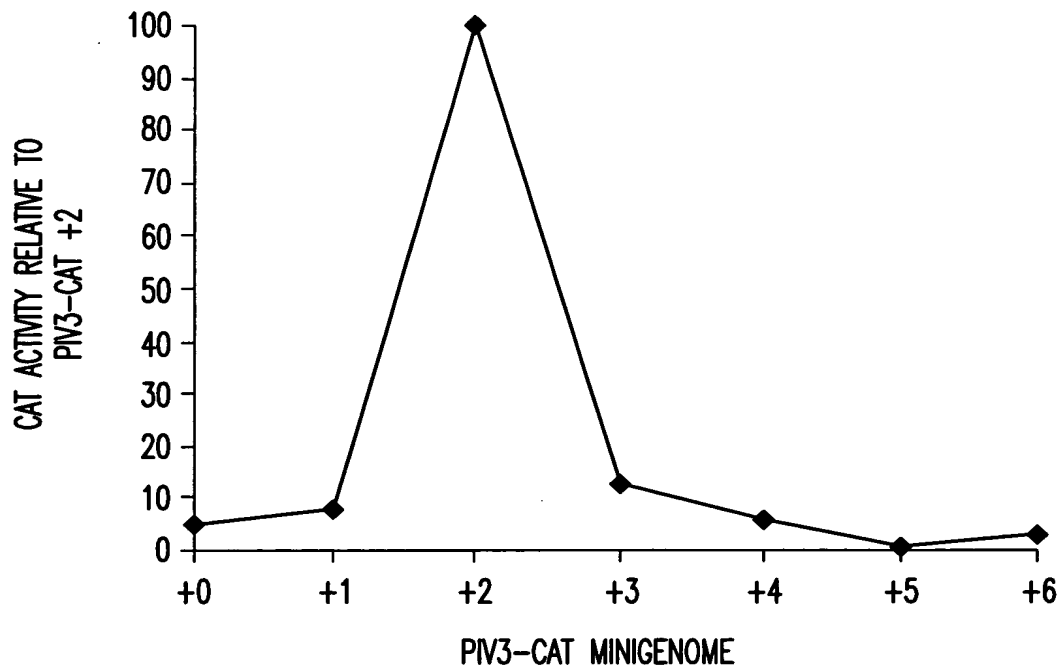


FIG.4



MICROCOCCAL NUCLEASE ASSAY
 (-) PROBE

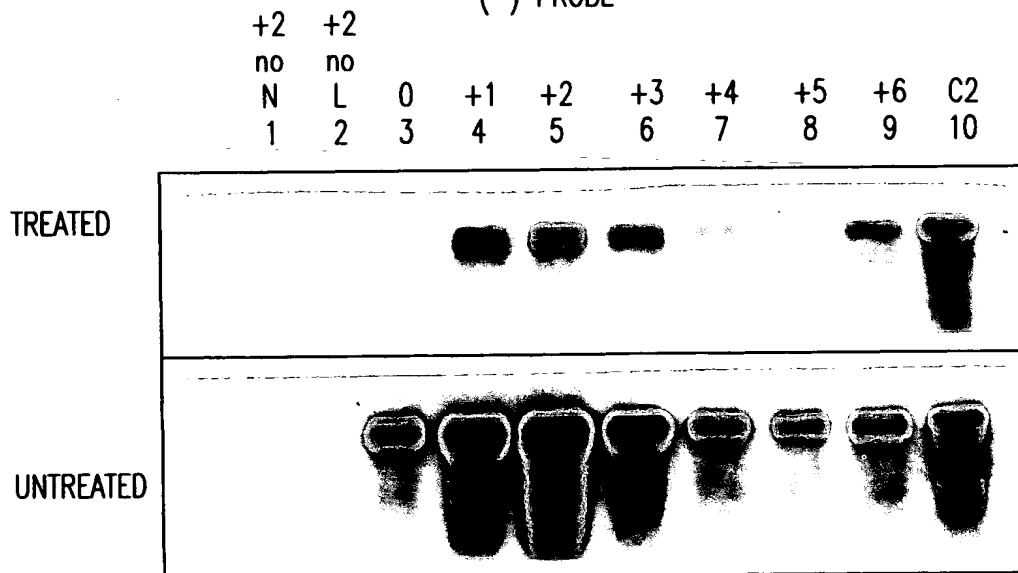


FIG.5A

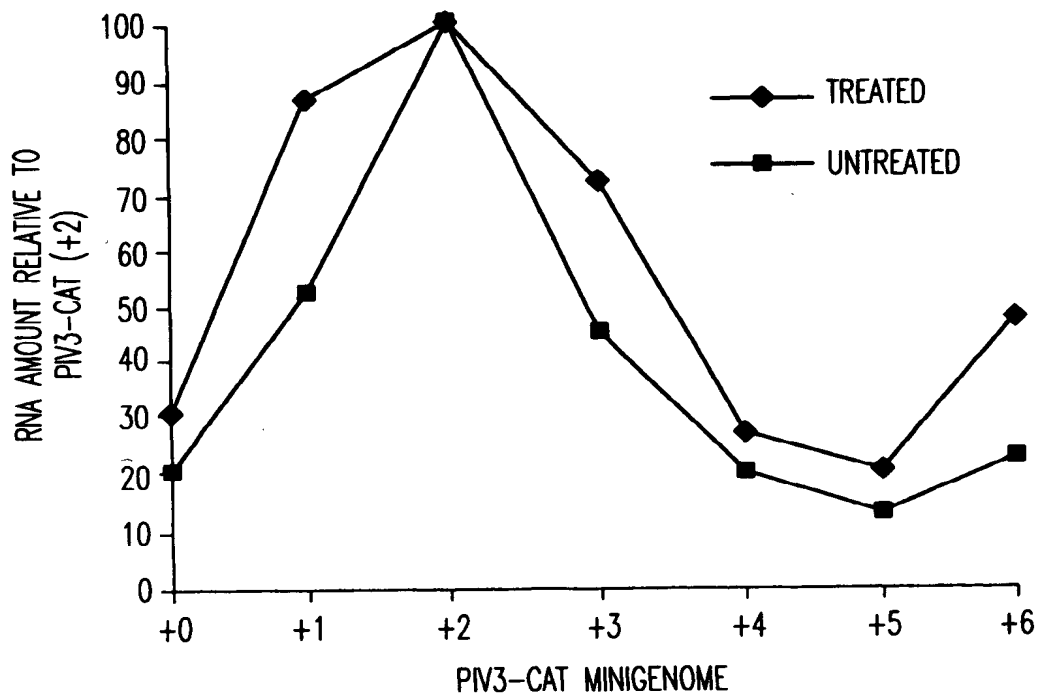


FIG.5B

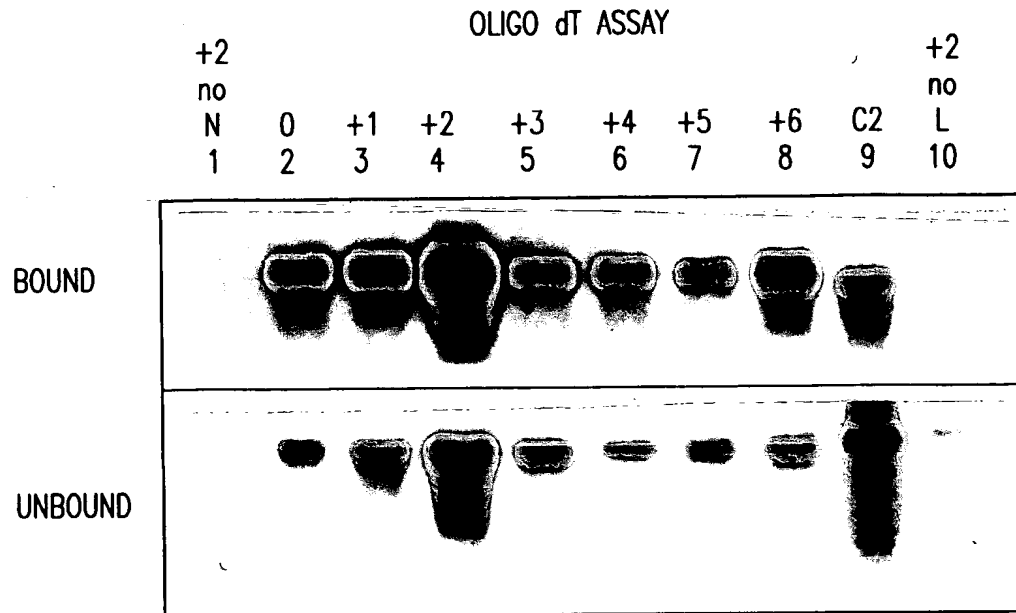


FIG.6A

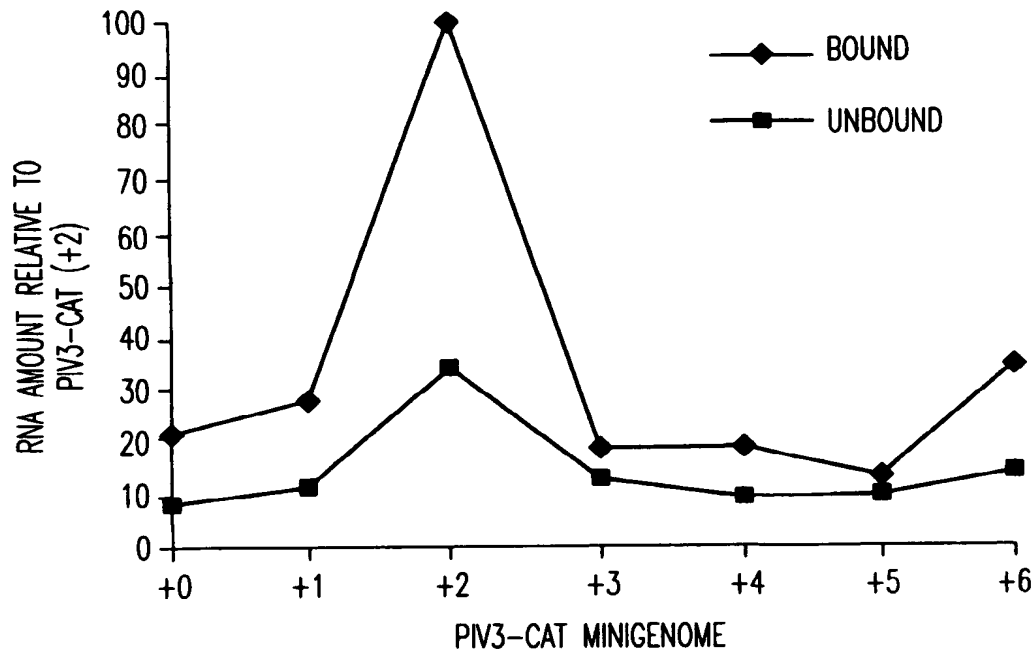


FIG.6B

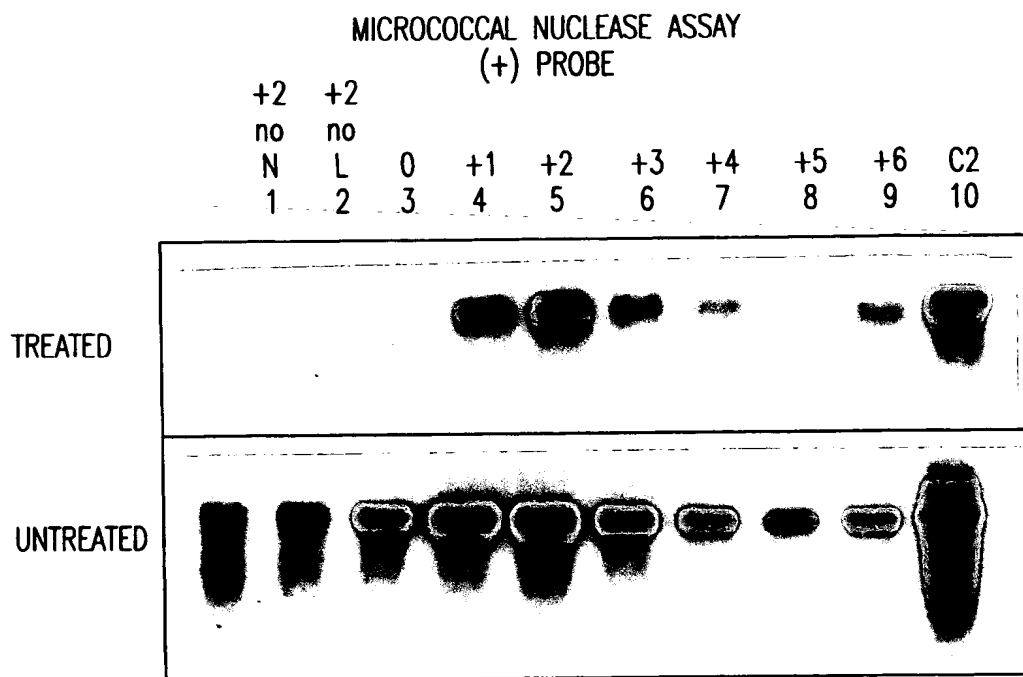


FIG.7A

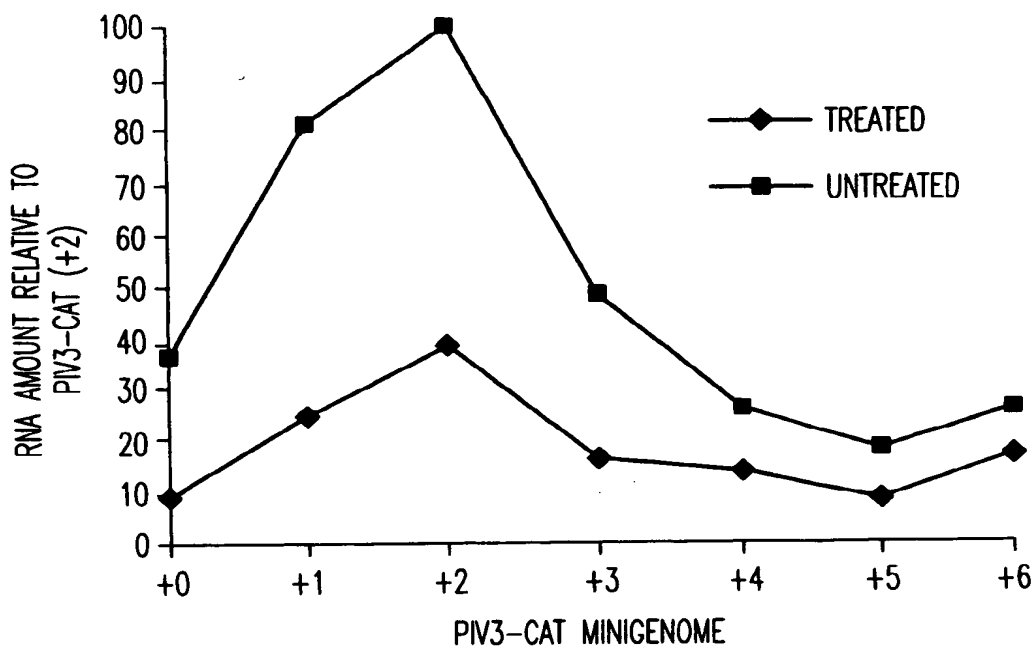


FIG.7B

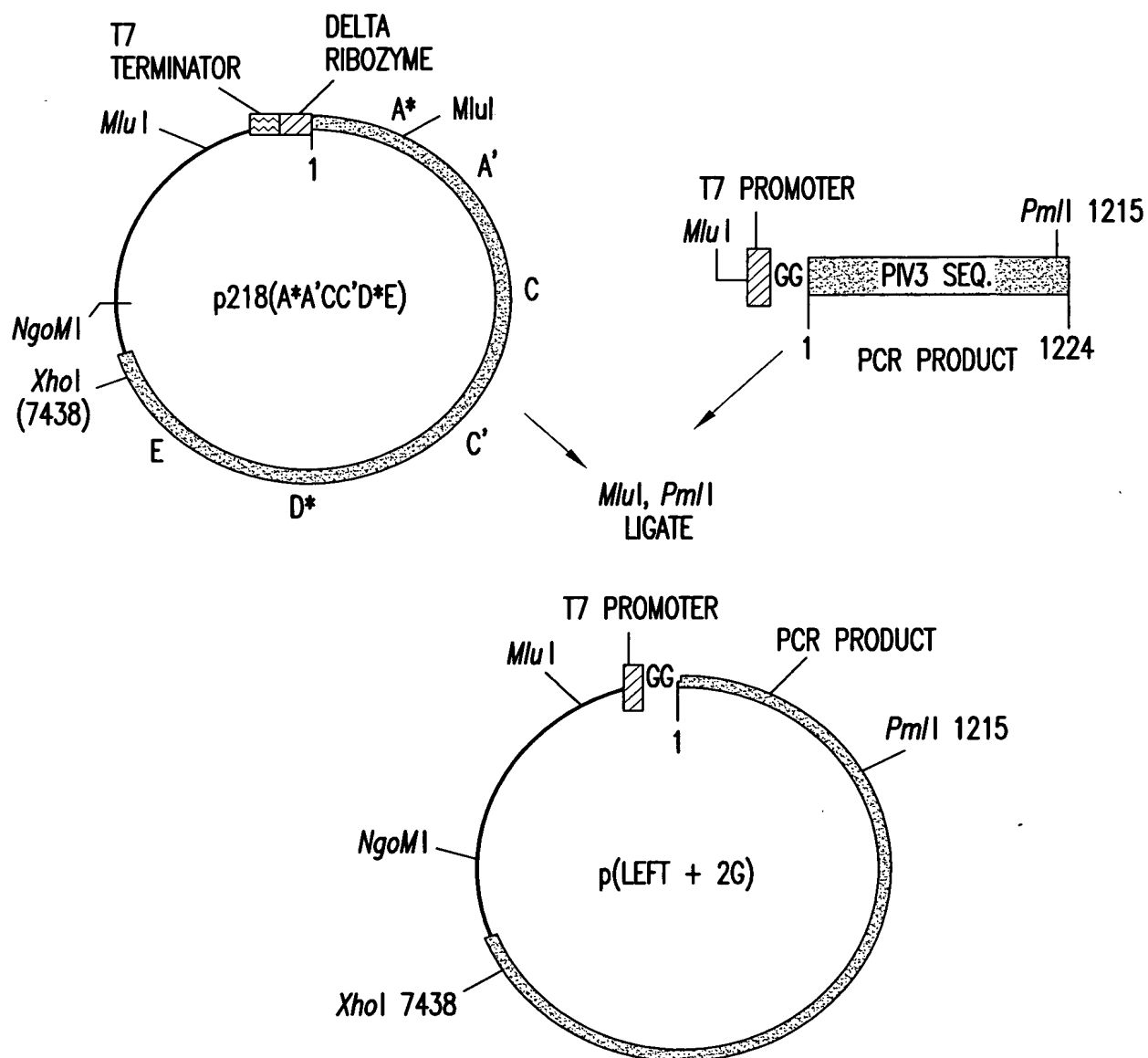


FIG.8

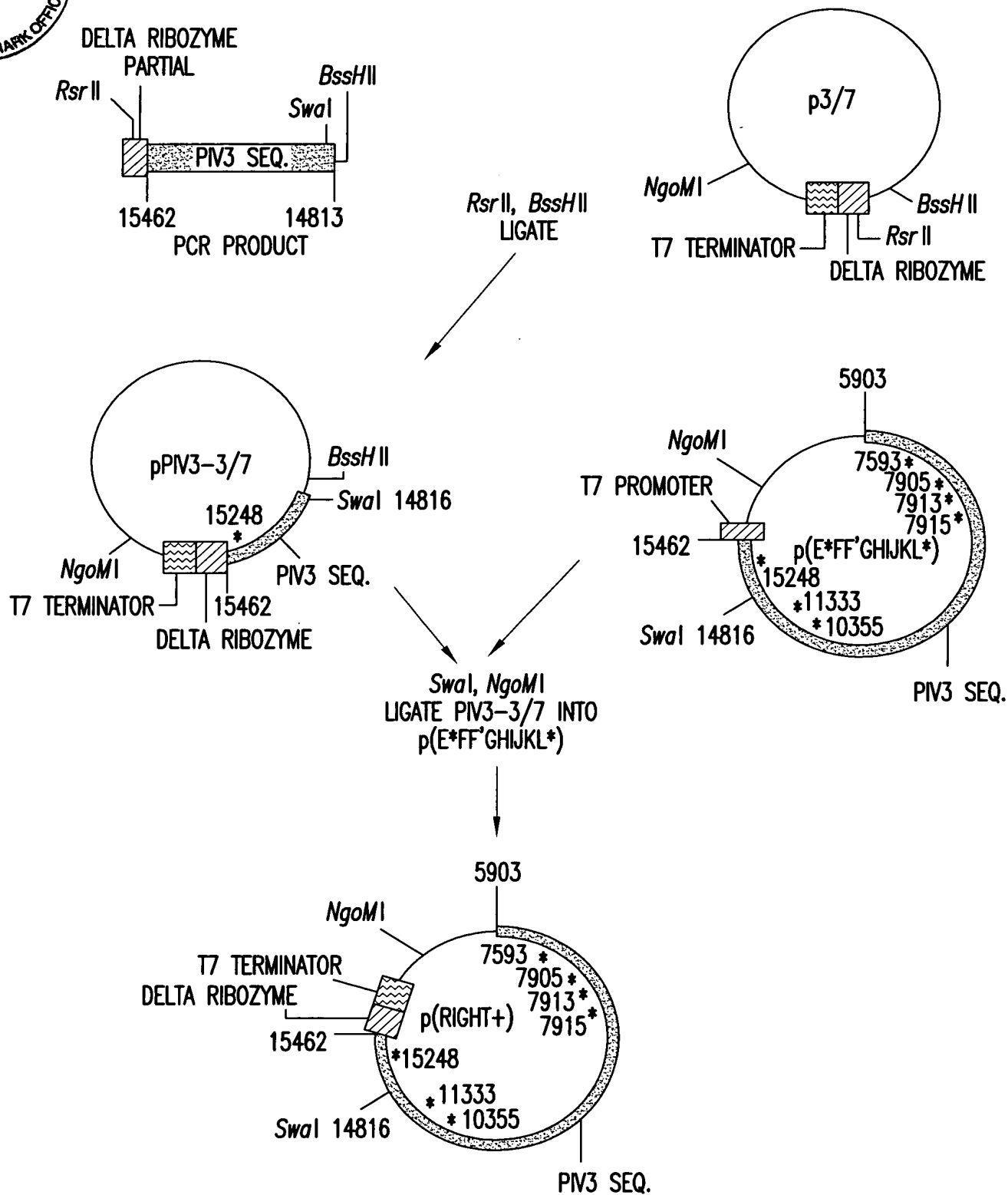


FIG.9

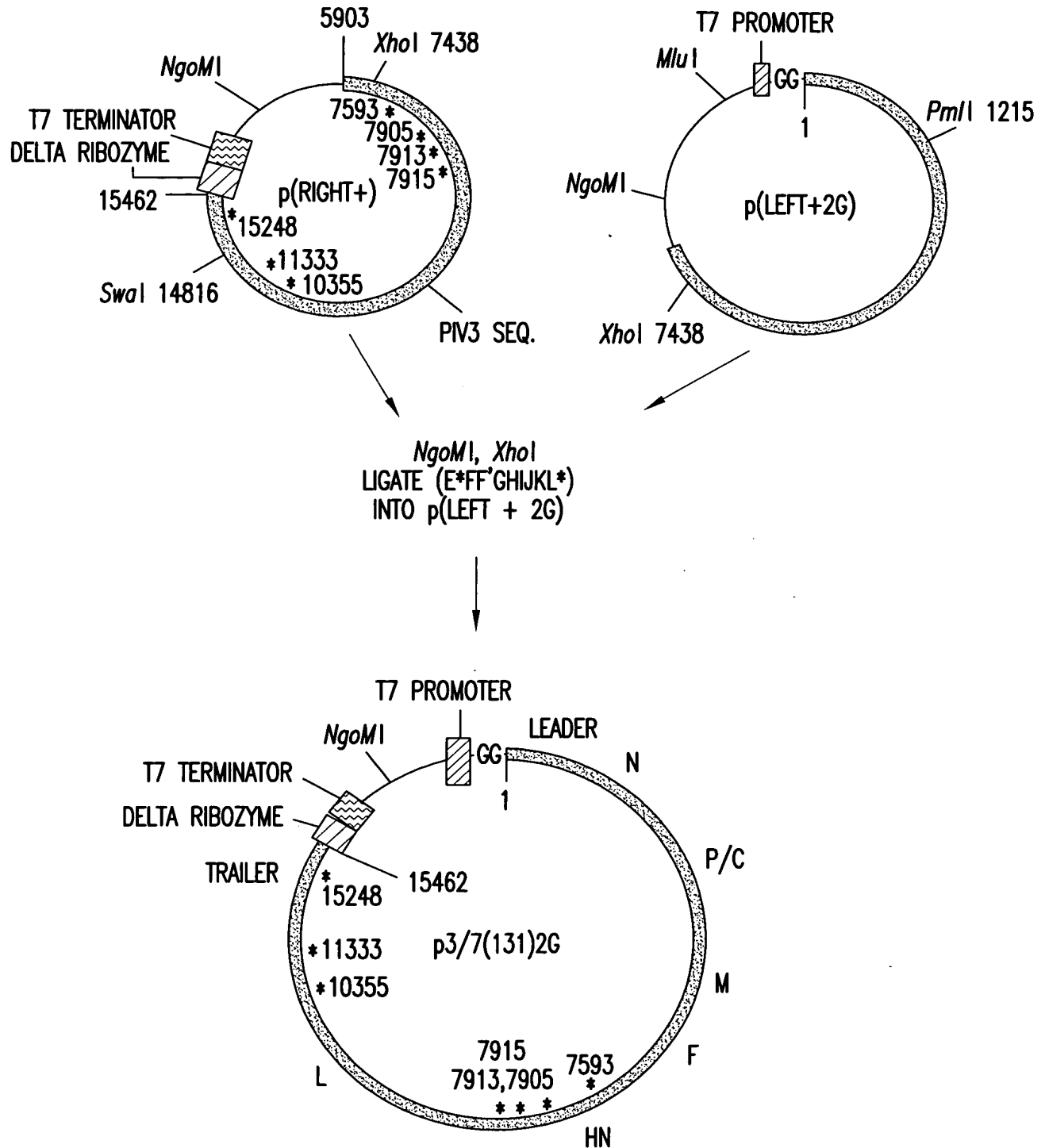


FIG.10

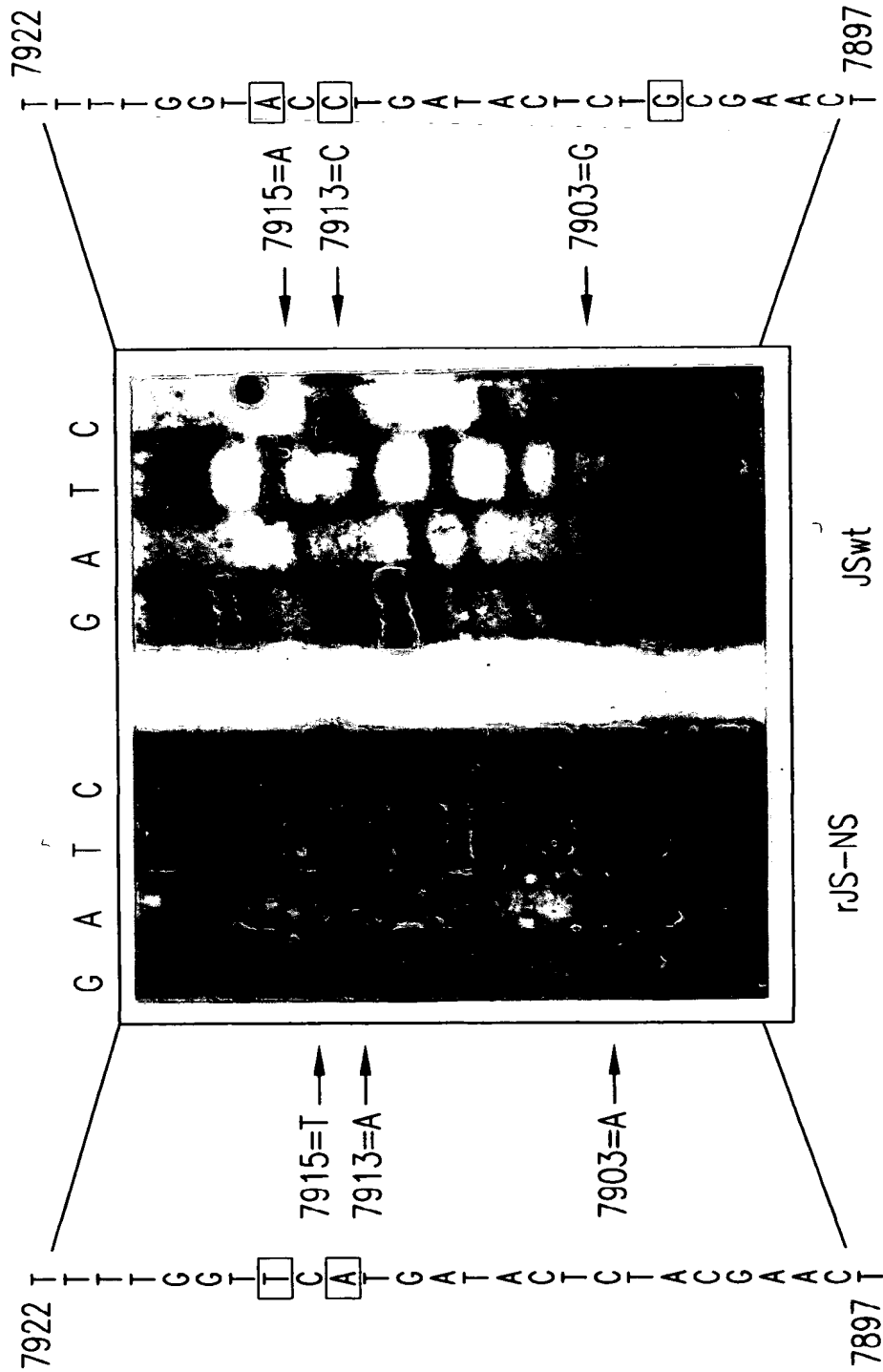


FIG.11



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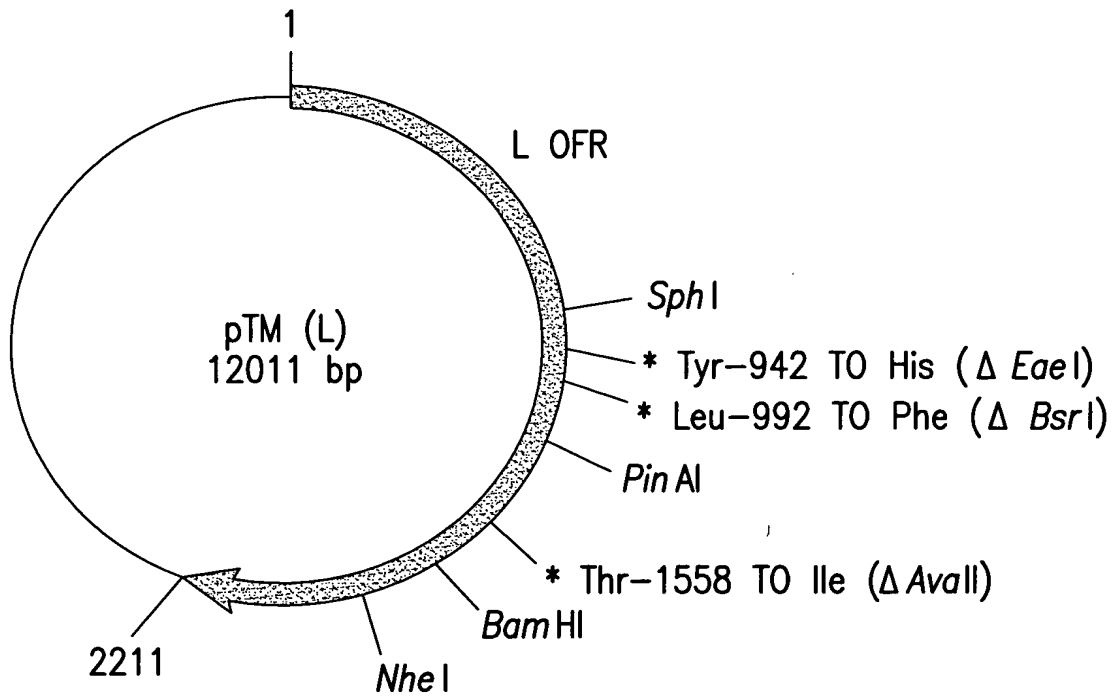
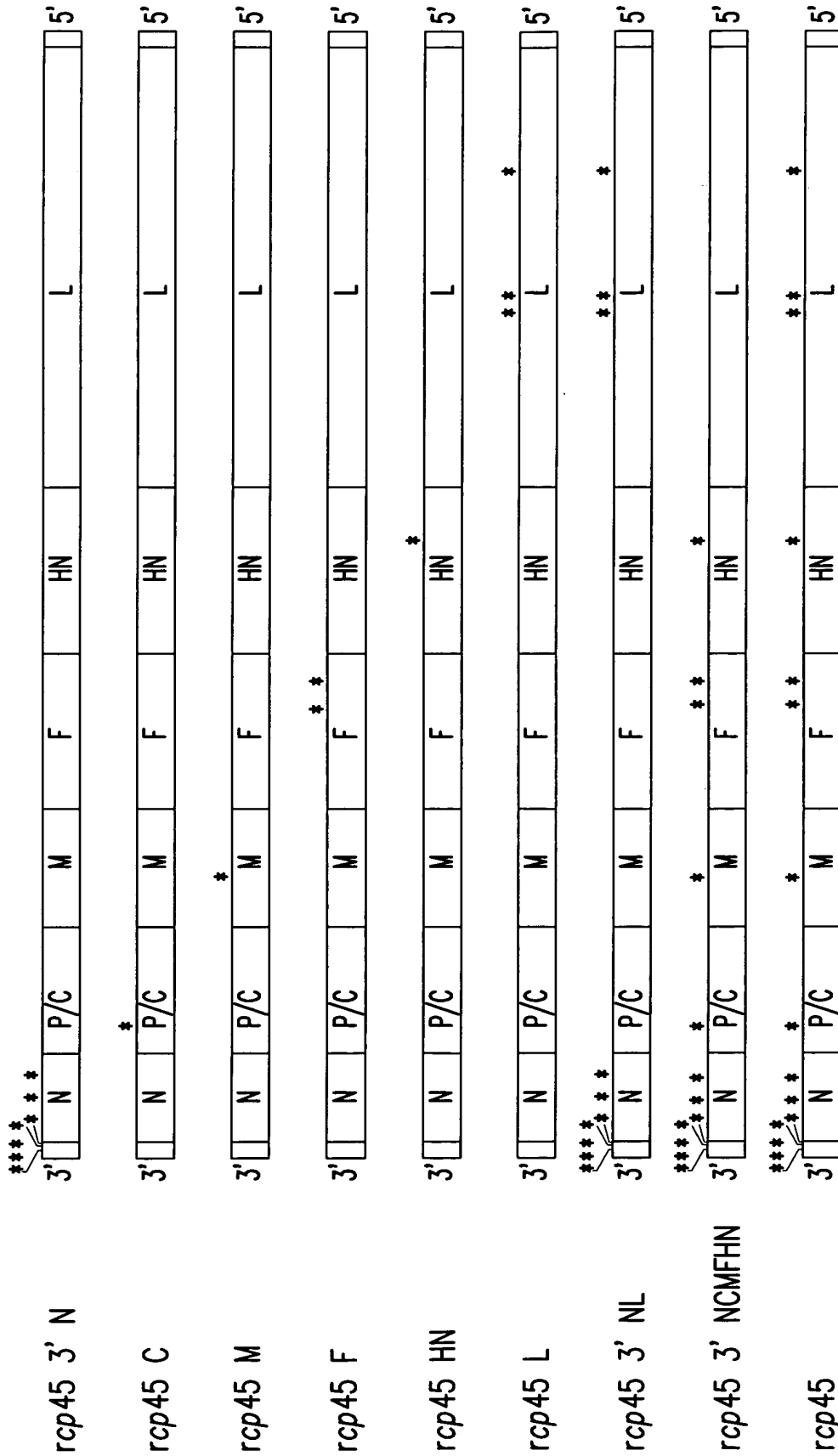


FIG.12



cp45 MUTATIONS INTRODUCED INTO rPIV3



SCHEMATIC REPRESENTATION OF RECOMBINANT PIV3 VIRUSES BEARING MUTATIONS (*) IN THE 3' LEADER, N GENE START, N, C, M, F, HN AND/OR L PROTEINS

FIG.13

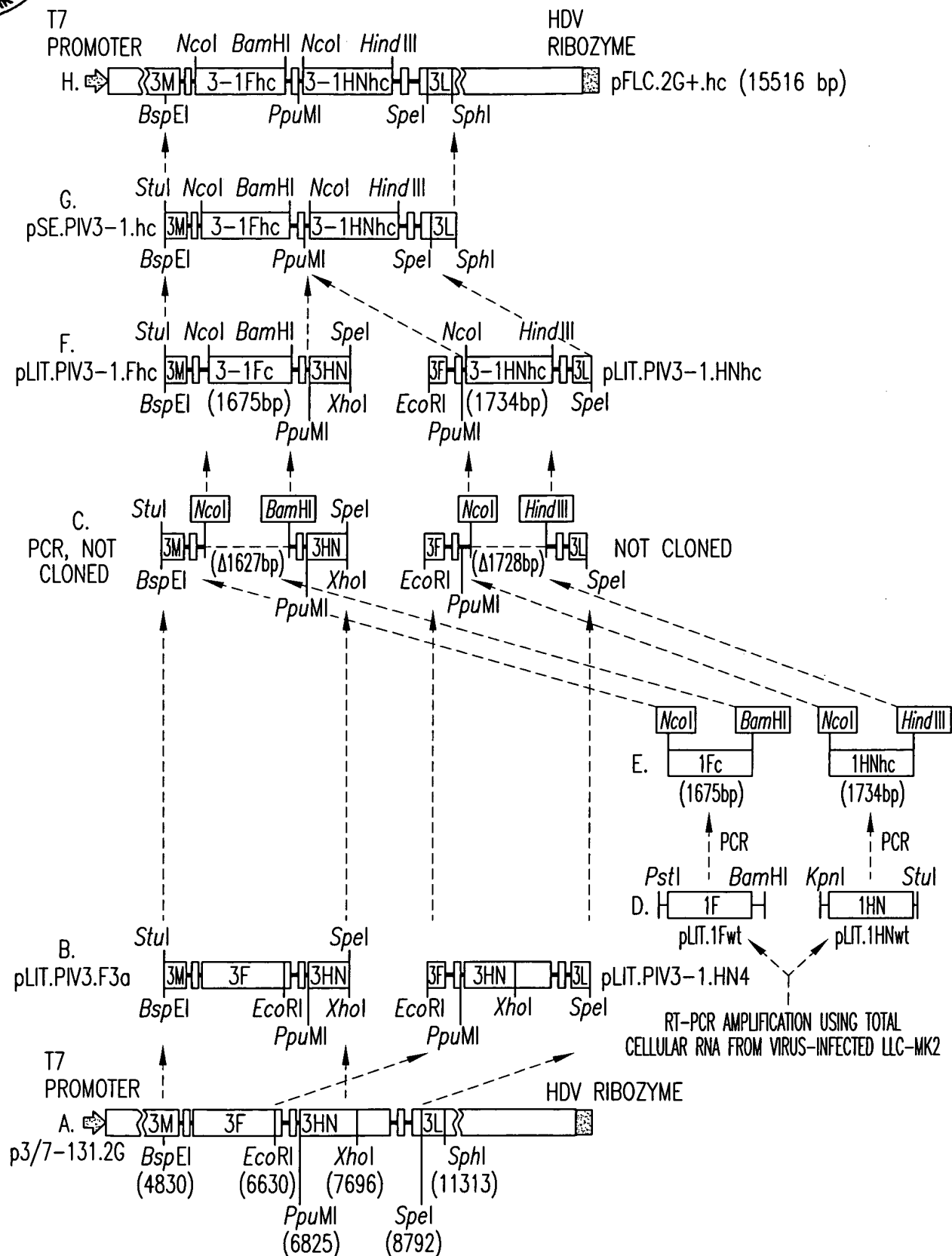


FIG.14



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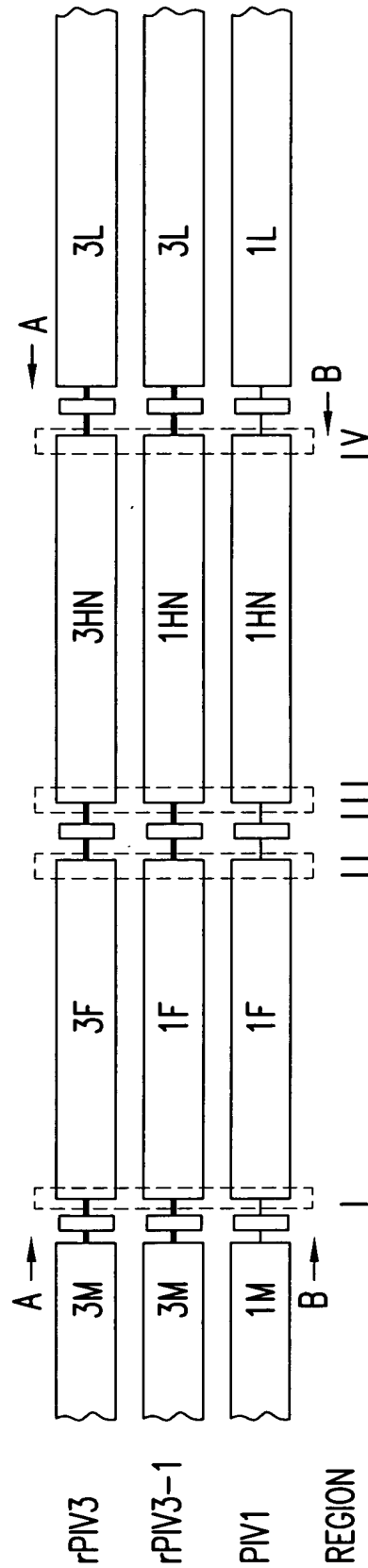


FIG.15A

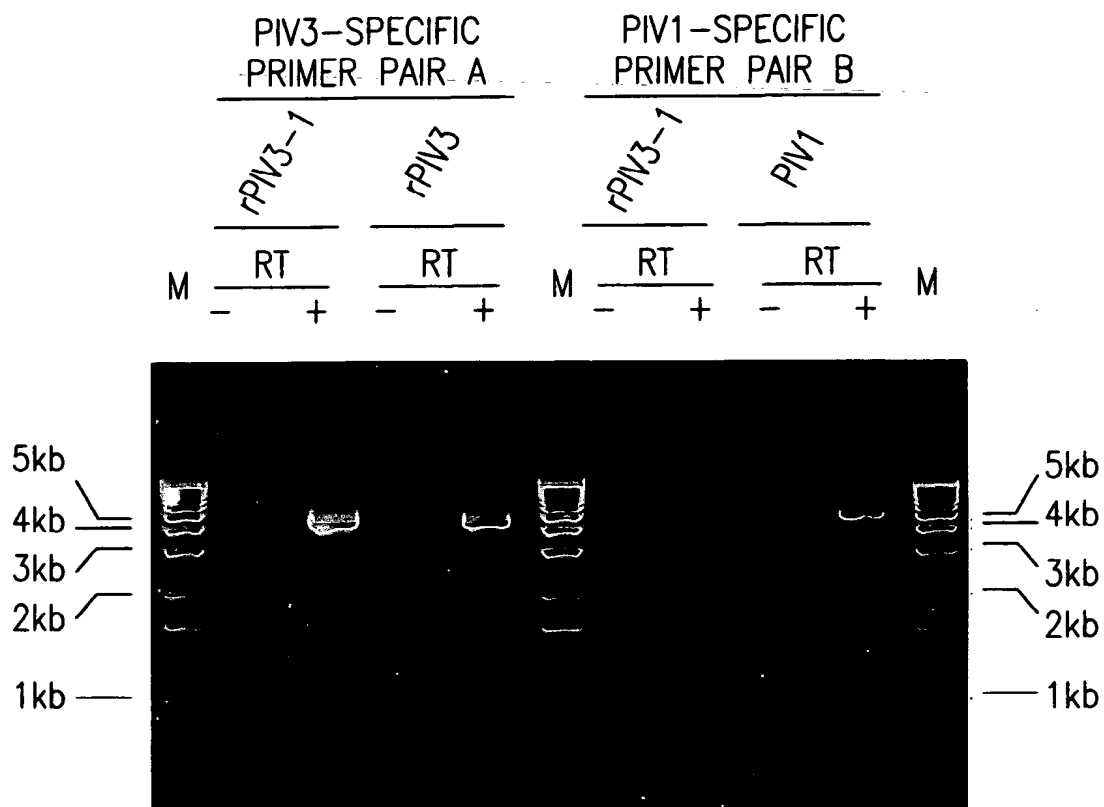


FIG.15B

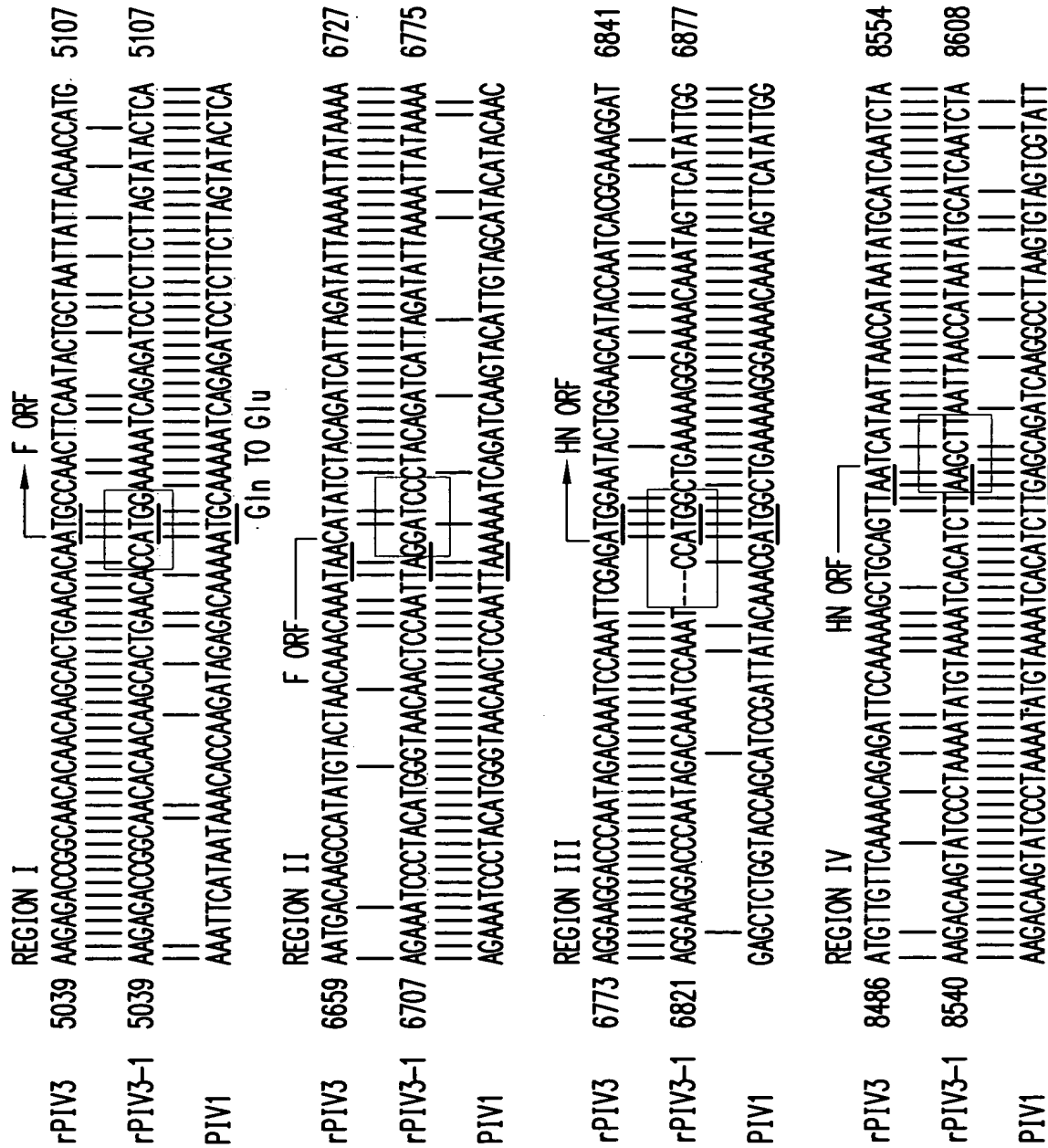


FIG.16

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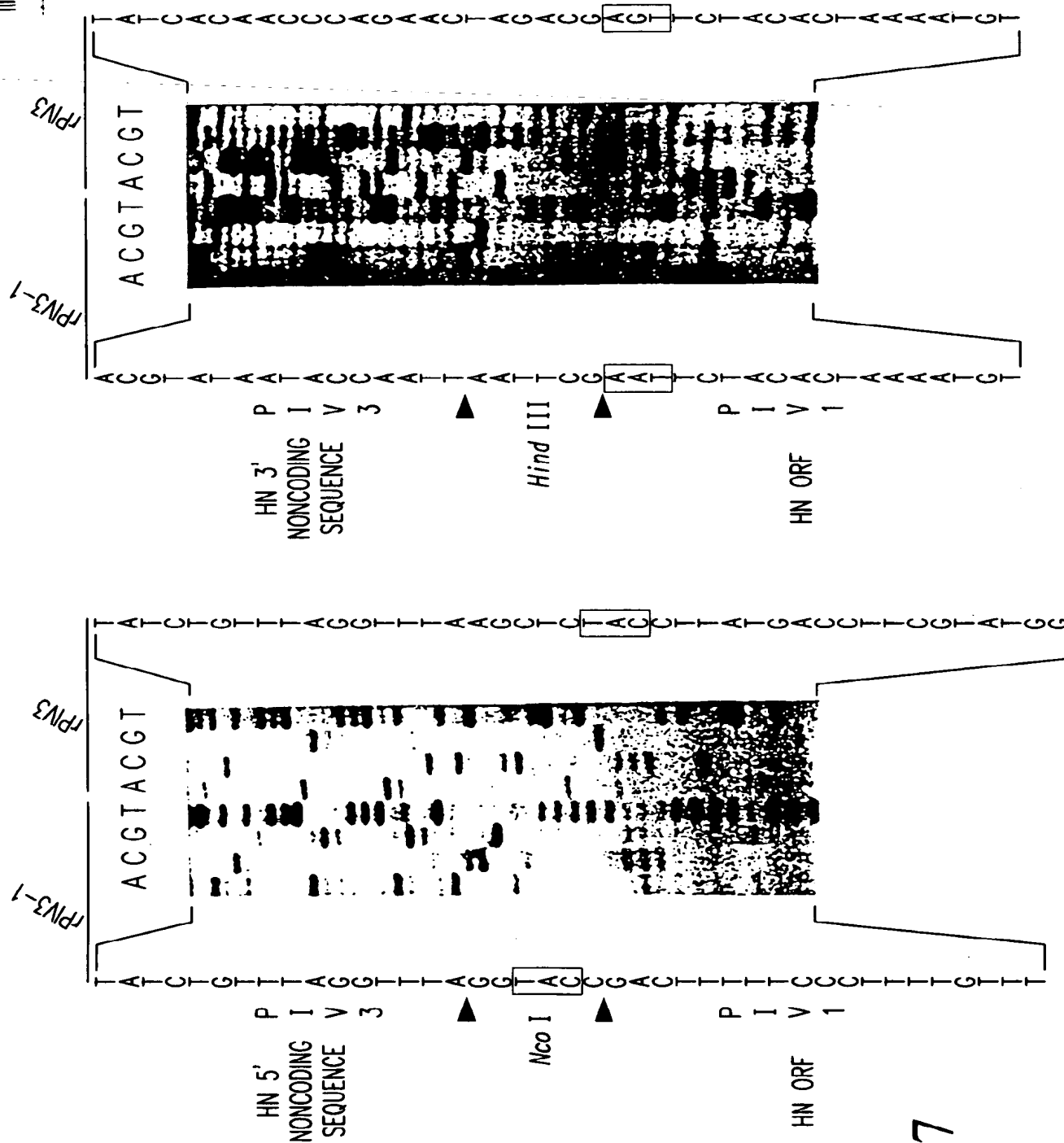


FIG.17



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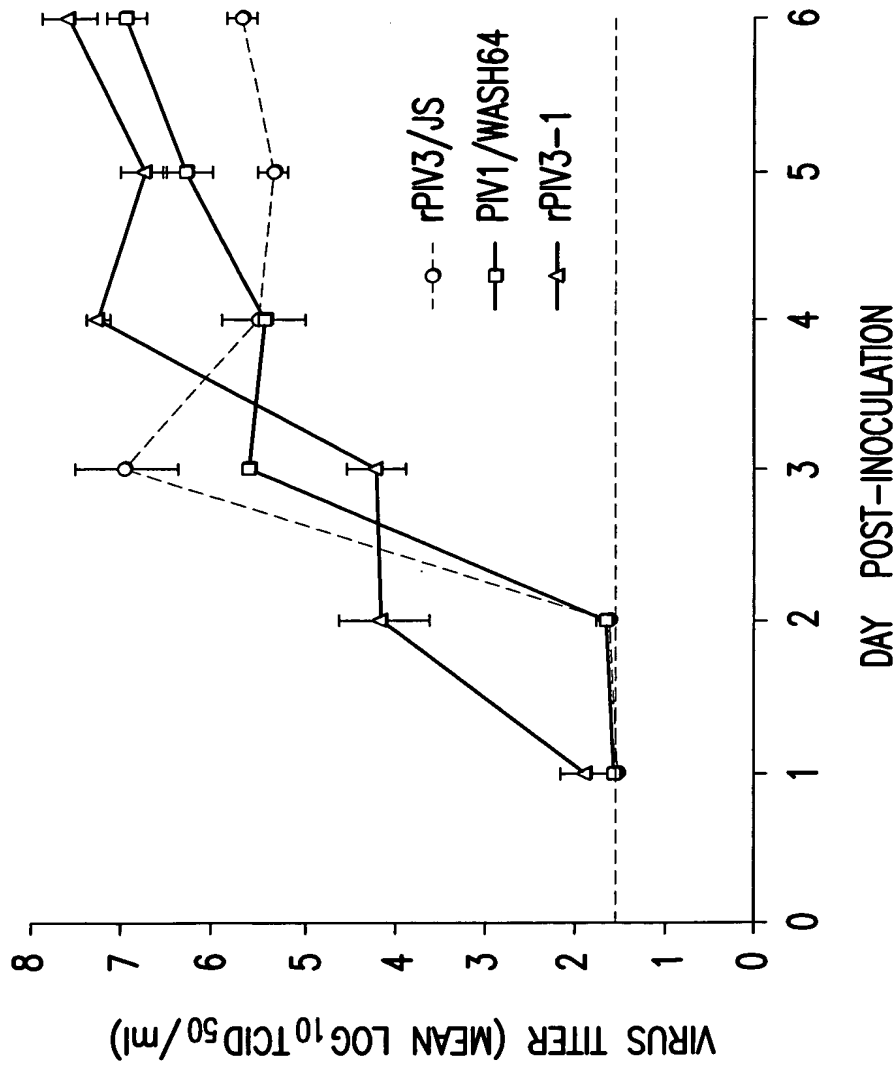


FIG.18



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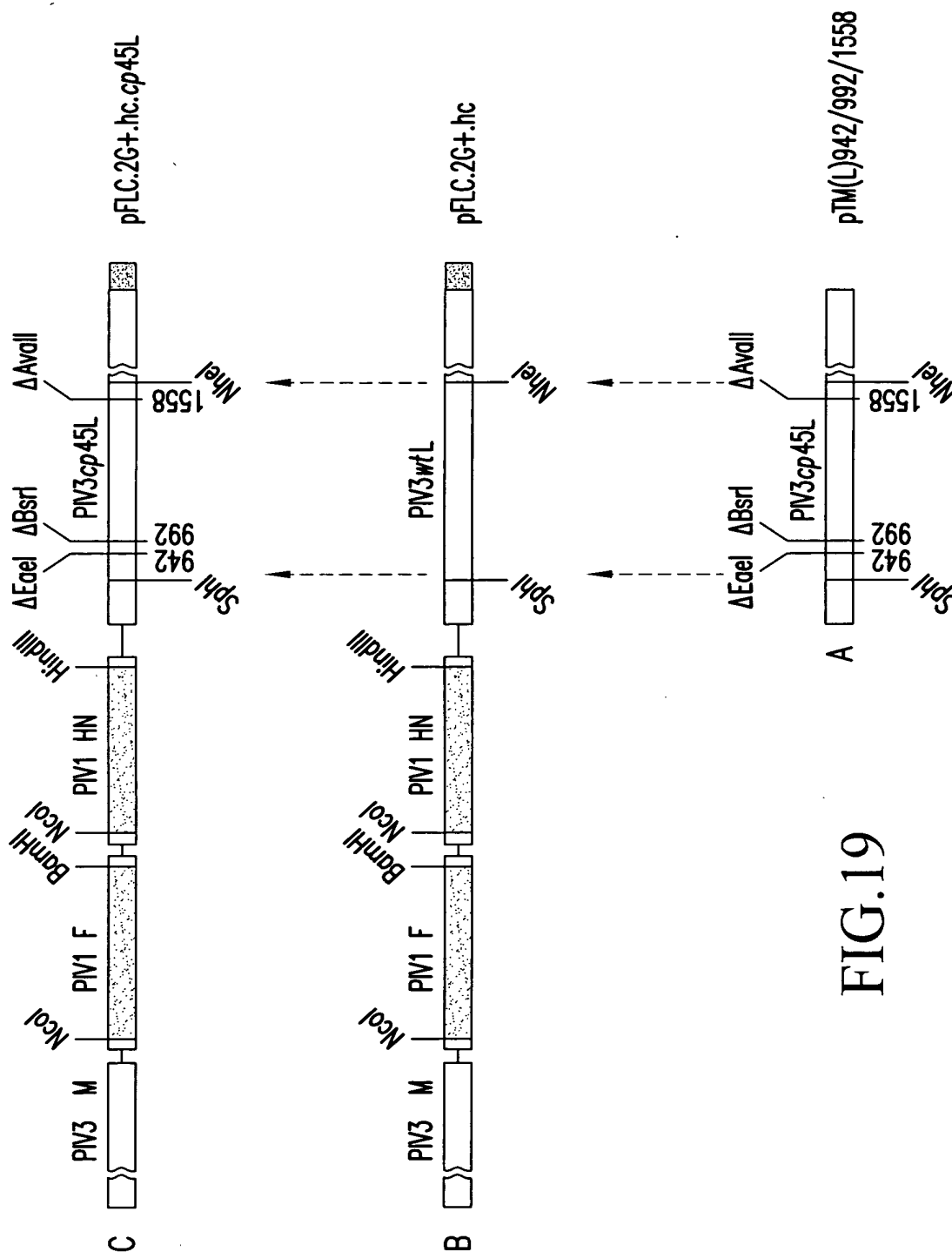


FIG.19